



Course Description

IDS1107 | Tools for Success | 1.00 credit

This course is for students majoring in science, technology, engineering and mathematics fields (STEM). Students will learn writing, research, presentation, and technological skills necessary for success in STEM-related disciplines. Course topics include learning styles, collaborative skills, power study techniques and will use related technologies related to STEM.

Course Competencies:

Competency 1: The student will be able to develop learning skills necessary for STEM-discipline success by:

1. Identifying various learning styles as they relate to STEM disciplines
2. Identifying their particular learning style and applying them to their own STEM classes
3. Recognizing and applying practical study skills in classroom and laboratory settings
4. Applying active reading and comprehension skills
5. Utilizing specific STEM-related reasoning skills and test-taking strategies

Competency 2: The student will be able to develop STEM-discipline-related coping skills by:

1. Identifying various methods of working with faculty, particularly those in the STEM disciplines
2. Identifying campus resources for support in math and science
3. Identifying various ways of working with other students in classroom and science laboratory settings
4. Developing various methods for achieving and maintaining good psychological health
5. Demonstrating appropriate classroom and laboratory behavior

Competency 3: The student will be able to describe the connections between the biweekly Departmental Science Forums and / or STEM field experiences and their academic coursework by:

1. Writing a reflection paper to describe the connections between their biweekly science forums and/or field experiences
2. Presenting connections between the forums/field experiences and their life, coursework, and college experience

Competency 4: The student will be able to begin to compile a portfolio of STEM-focused academic and personal achievements, which will be developed and fine-tuned over the next two years by:

1. Assembling an electronic portfolio, which will be fine-tuned over the next two years

Competency 5: The student will be able to develop proficiency in the technology-appropriate to courses in the STEM fields by:

2. Demonstrating proficiency with STEM course-related laboratory-computer interfaces, word-processing, email, presentation software, and concept mapping software
3. Creating an original webpage as part of their electronic portfolio
4. Demonstrating proficiency in podcast basics Revision

Learning Outcomes:

- Communicate effectively using listening, speaking, reading, and writing skills
- Use quantitative analytical skills to evaluate and process numerical data
- Solve problems using critical and creative thinking and scientific reasoning
- Use computer and emerging technologies effectively